

REMARKS

Applicant thanks the Examiner for the opportunity to discuss the contents of the cited prior art on April 11, 2005. The discussion clarified the Examiner's understanding of the teachings of the cited prior art.

The Examiner rejected claims 1 – 6, 8 – 15, 17, and 18 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,973,722 to Wakai *et al.* In that regard, the Examiner stated that Wakai *et al.* discloses video data being output from the graphics adapter in digital form.

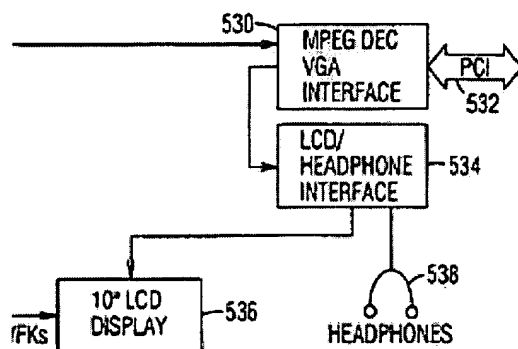
Applicant respectfully disagrees with the Examiner. In that regard, Applicant has submitted selected pages of the *IBM Personal System/2 Hardware Interface Technical Reference – Video Subsystems* (“the VGA Specification”) as Attachment A. Page 4-3 of the VGA Specification discloses the signals transmitted by a VGA connector. Signals on pins 1, 2, and 3 are identified as Red, Green, and Blue signals. Page 2-105 of the VGA Specification shows that the Red, Green, and Blue signals are generated by a DAC, *i.e.*, a digital to analog converter. Thus, it is clear that a “VGA connector” utilizes analog signals to transmit video frames to a display. Applicant has also attached a more recent document, Attachment B, entitled “Video interconnect technology: VGA, DVI and the future” that discusses the VGA interface. Among other things, this document states:

“In the early 80s the analog VGA interface was adopted quickly as the de facto standard and marked the move from the digital EGA to a more colorful world. VGA brought us the color monitors that now occupy more than 90% of our desktops.”

In light of the above, it is clear that a “VGA interface” is a widely known video interface that utilizes analog signals to transmit video frames to a display.

The Examiner kindly pointed out during the interview of April 11, 2005 that U.S. Patent No. 6,411,813 discloses a VGA controller that outputs both “analog RGB” and “digital RGB.” Examiner is correct that a VGA controller can output video frames using digital RGB signals. However, such digital RGB signals are not a part of a VGA interface.

A portion of Figure 5 of Wakai *et al.* is presented below.

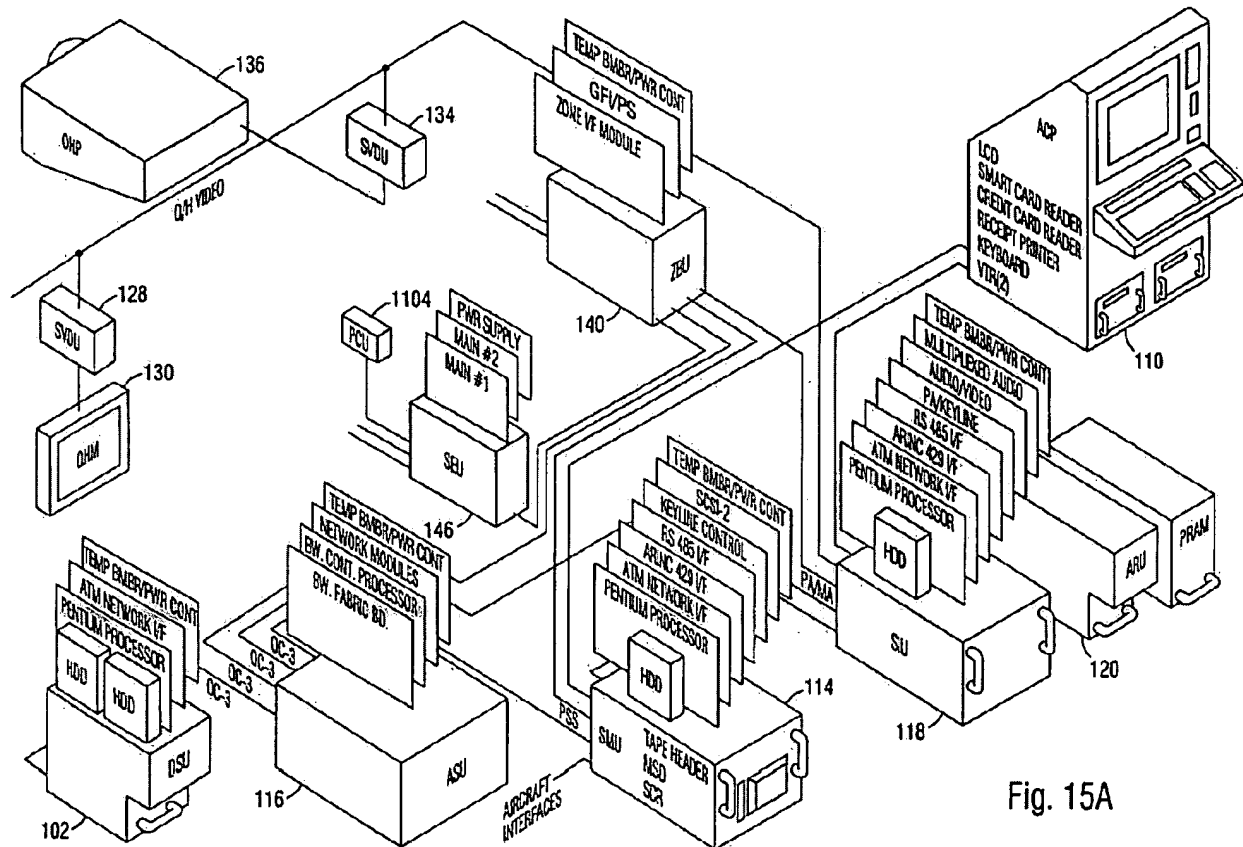


Wakai *et al.* states the following regarding the above portion of Figure 5.

“The MPEG VGA interface 530 is coupled to the system interface unit 118 for receiving audio and video input from the system interface unit. The MPEG VGA interface 530 is also coupled to the display 536 and to a set of audio headphones, through a display, headphone interface circuit 534 for communicating with an attendant.” Wakai *et al.* col. 11, lns. 58 – 64.

The minimal disclosure of Wakai *et al.* regarding the portion of the above Figure does not indicate whether the signals used to transmit video frames to the LCD/headphone interface are analog or digital. Thus, we must look to the ordinary meaning of “VGA interface” to determine the format of those signals. As discussed above, the VGA Specification clearly states that a “VGA interface” utilizes analog Red, Green, and Blue signals to transmit video frames. If the Examiner believes that an affidavit from one skilled in the graphic arts stating that a “VGA interface” utilizes analog Red, Green, and Blue signals to transmit video frames would further the prosecution of this application, then Applicant will promptly provide such an affidavit.

In an effort to further the prosecution of this application, Applicant has added several additional limitations to independent claims 1 and 10. First, the claims have been amended to require that the video projector include a housing that contains at least a portion of the network adapter, the microprocessor, the graphics adapter, the light valve and the light source. Wakai *et al.* does not disclose such a housing. For example, the Pentium processor 500, the ATM network interface 526, and the VGA interface 530 of Figure 5, which were cited by the Examiner, are a part of a system manager unit 114. As shown in Figure 15A of Wakai *et al.*, which is presented below, the system manager unit 114 does not include a housing that includes either the display 536 that was cited by the Examiner or a video projector.



To the contrary, the LCD display 536 is a part of an attendant control panel 110.

“The attendant control panel 110 also includes multiple input/output devices, including a CD Rom drive 604, a credit card reader 602, one or more printers 520, a headphone port 538, a display 536 and a keyboard port 524.” Wakai *et al.*, col. 12, lns. 24 – 28.

As shown in Figure 15A above, the cited LCD display is not included in the housing of the system management unit 114.

In an effort to further the prosecution of this application, independent claims 1 and 10 have been amended to require that the video projector is capable of projecting a graphic image onto a screen that is remote from the video projector. The LCD display cited by the Examiner is not capable of projecting a graphic image onto a screen that is remote from the LCD display.

In an effort to further the prosecution of this application, independent claims 1 and 10 have been amended to require that the video projector is capable of applying Keystone correction to a video frame. Wakai *et al.* does not disclose applying Keystone correction to a video frame.

Regarding claim 10, in addition to rejecting claim 10 for the reasons stated with respect to claim 1, the Examiner stated:

“power supply (item 504) is operable to supply power to network adaptor, the microprocessor, the graphics adapter and the light valve as claimed.”

Applicant cannot locate any disclosure in Wakai *et al.* that discusses power supply 504 providing power to the LCD display 536 via the VGA interface. If the Examiner would provide the factual basis for his statement regarding power supply 504 providing power to the LCD display 536, it would enable Applicant to provide a more complete response.

In light of the above, Applicant believes that independent claims 1 and 10 together with claims 2 – 9 and 11 - 18, which depend from claims 1 or 10, are allowable.

CONCLUSION

It is submitted that the present application is presently in form for allowance. Such action is respectfully requested.

Respectfully submitted,

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